

0590  
1120

OIPE

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: 11/20/2001  
Entered by: [Signature]  
Verified by: [Signature] (STIC staff)

Serial Number: 09/986,632

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/lastname at end of file;  
☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa: \_\_\_\_\_
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 2/1/95

#2

## RAW SEQUENCE LISTING

DATE: 11/20/2001

PATENT APPLICATION: US/09/986,632

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

3 <110> APPLICANT: AGUERA, Michelle  
5 <120> TITLE OF INVENTION: Modulation of Ulip/CRMP activity for the prevention or  
6 treatment of myelin disorders  
8 <130> FILE REFERENCE: P06974US01/BAS  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/986,632  
C--> 11 <141> CURRENT FILING DATE: 2001-11-09  
13 <150> PRIOR APPLICATION NUMBER: US 60/246,751  
14 <151> PRIOR FILING DATE: 2000-11-09  
16 <160> NUMBER OF SEQ ID NOS: 30  
18 <170> SOFTWARE: PatentIn Ver. 2.1  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 3074  
22 <212> TYPE: DNA  
23 <213> ORGANISM: Homo sapiens  
25 <400> SEQUENCE: 1  
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27 tgcagccgcc gccgccccga gcacccgcag ctccggcgcc gcggcgagac ggagacggac 120  
28 cgagccacgg gcccccgcgg ccgcagcatc tcggaggaga acatgcttgc caactcagcc 180  
29 agcgtgagga tctcatcaa gggaggcaag gtggtgaacg atgactgcac ccacgaggct 240  
30 gacgtctaca tcgagaatgg catcatccag cagggtgggc gcgagctcat gatccctggc 300  
31 ggggccaagg tgattgatgc cacaggaaaa ctggtgatcc ctggtggcat cgacaccagc 360  
32 acccacttcc accagacctt catgaatgcc acgtgcgtgg acgacttcta ccatgggacc 420  
33 aaggcagcac tcgtcggagg caccaccatg atcatcgccc acgtcctgcc cgacaaggag 480  
34 acctcccttg tggacgctta tgagaagtgc cgaggtcttg ccgaccccaa ggtctgctgt 540  
35 gattacgccc tccacgtggg gatcacctgg tgggcaccca aggtgaaagc agaaatggag 600  
36 aactggtga gggagaaggg tgtcaactcg ttccagatgt tcatgacctt caaggacctg 660  
37 tacatgcttc gagacagtga gctgtaccaa gtgttgacg cttgcaagga cattggggca 720  
38 atcgccgcg tccatgctga aaatggggag cttgtggccg aggggtgctaa ggaggcactg 780  
39 gatttgggga tcacaggccc agaaggaatc gagatcagcc gtccagagga gctggaagct 840  
40 gaagccactc atcgtgttat caccattgca aacaggactc actgtccaat ctacctggtc 900  
41 aacgtgtcca gtatctcggc tggtgacgtt atcgagctg ctaagatgca agggaagggt 960  
42 gtgctggcgg agaccaccac tgcacatgcc acgtgacag gcttacacta ctaccaccag 1020  
43 gactggctcc acgcgctgc ctatgtcacg gtgcctcccc tgagactgga caccaacacc 1080  
44 tcaacctacc tcatgagcct gctggccaat gacactctga acatcgtggc atcagatcac 1140  
45 cggcctttca ccacaaagca gaaagctatg ggcaaggag acttcaccaa gatcccacat 1200  
46 ggagtgaagt gcgtgcagga ccgcagagc gtcactctgg agagaggagt ggttgaggga 1260  
47 aagatggatg agaaccgttt tgtggcgtt accagttcca acgcagctaa gcttctgaac 1320  
48 ctgtatcccc gcaagggcgg cattattccc ggagccgatg ctgatgtggt ggtgtgggac 1380  
49 ccagaagcca caaagaccat ctacgccagc acgcaggctc agggaggaga cttcaacctg 1440  
50 tatgagaaca tgcgtgcca cggcgtgcca ctggtcacca tcagccgggg gcgcgtcgtg 1500  
51 tatgagaacg gcgtcttcat gtgcgcgcag ggcaccggca agttctgtcc cctgaggctc 1560  
52 ttcccagaca ctgtctacaa gaagctggtc cagagagaga agactttaaa ggttagagga 1620  
53 gtggaccgca ctccctacct ggggatgtc gctgtgtcgt tgcacctgg gaaaaaagag 1680  
54 atgggaaccc cactgcgaga cactcctacc cggcccgtca cccggcatgg gggcatgagg 1740  
55 gaccttcacg aatccagctt cagcctctct ggctctcaga tcgatgacca tgttccaaag 1800  
56 cgagcttcag ctgggacctt cgctcctccc ggaggcaggt cgagtggcat ttggtaaagg 1860  
57 cattgccaa gcccccgagt gaggacgcac cgccgccacc agcccgaac tctccagccg 1920

## RAW SEQUENCE LISTING

DATE: 11/20/2001

PATENT APPLICATION: US/09/986,632

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

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58 aagctgcagg ggcaggagag gctgggctgg gtggcacacc acccgagggg ggccccggga 1980
59 cccacggagc cctccctatg tctgcaaagt gattcactgt gcttcgagcc aactctaaca 2040
60 ggcactttga gatgtgttcc tctgtgtgta gtccctttctg ccttggcctc ggcgggcttt 2100
61 tctggggccc aggaagccca cactatgcac agagcccaat gcatagagcc ctggccagcc 2160
62 ctctctctca ctctgcctc cgttggtttt gggaaagccc agactttagt gccctgcccc 2220
63 ctggctgact ggccagttgc ccagagcact ttagcagatg tggtttcaaa gtaaaggcct 2280
64 cctccccac cccttaggcc cgtggtgac atttcccaag tcagacagat gtcagcttcc 2340
65 cagccatgcc caggacgtcc tatctcccc aaccacctc tggccctgtg taggggcagg 2400
66 gatgggggtg gctgggactc ctgggtcccc tcgccagctt ctctgcgcc ccgccacac 2460
67 cctcgggggg gtcacaggcc cagaagggtg gctgggcggg gctcgaggct ggtgccaggc 2520
68 gcgtgtaaat ggttttggtt tgcacgtttg gtttgcgag tagtttggtt tgacttggtt 2580
69 gtgcatactg tgaaaaataa cgggtgcttg gtcactagca tagaatagcg acaggaatag 2640
70 atgtggctct taggagacgc tgcacttgac accaaccaga cagcacaggg caggggtggt 2700
71 ggagggggct gggctcacag gcctctcttt tccccgctg cagtcttctg ggctgcggga 2760
72 ggccctggcc ctttccctt cccctccct ccttgtctag ttcccatat tccaaaaggg 2820
73 ggccctggat gctagcccca gagatgccag cccttcagga agcaggtgtc ctttccctc 2880
74 tctgcccctg atcactccca gcactccct tgccttcccc tgtcttcacc tgccaccaca 2940
75 cacacacaca cacacacaca cacacacaca cgcattggtt cctataactt ctctctgctg 3000
76 gacagagact cagcgtcct cctgtgtgac tggcaagagg cctcatgcct gctgagagag 3060
77 ggtcgacgcg gccg                                     3074

```

80 &lt;210&gt; SEQ ID NO: 2

81 &lt;211&gt; LENGTH: 564

82 &lt;212&gt; TYPE: PRT

83 &lt;213&gt; ORGANISM: Homo sapiens

85 &lt;400&gt; SEQUENCE: 2

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86 Met Leu Ala Asn Ser Ala Ser Val Arg Ile Leu Ile Lys Gly Gly Lys
87   1             5             10             15
89 Val Val Asn Asp Asp Cys Thr His Glu Ala Asp Val Tyr Ile Glu Asn
90             20             25             30
92 Gly Ile Ile Gln Gln Val Gly Arg Glu Leu Met Ile Pro Gly Gly Ala
93             35             40             45
95 Lys Val Ile Asp Ala Thr Gly Lys Leu Val Ile Pro Gly Gly Ile Asp
96             50             55             60
98 Thr Ser Thr His Phe His Gln Thr Phe Met Asn Ala Thr Cys Val Asp
99   65             70             75             80
101 Asp Phe Tyr His Gly Thr Lys Ala Ala Leu Val Gly Gly Thr Thr Met
102             85             90             95
104 Ile Ile Gly His Val Leu Pro Asp Lys Glu Thr Ser Leu Val Asp Ala
105             100            105            110
107 Tyr Glu Lys Cys Arg Gly Leu Ala Asp Pro Lys Val Cys Cys Asp Tyr
108             115            120            125
110 Ala Leu His Val Gly Ile Thr Trp Trp Ala Pro Lys Val Lys Ala Glu
111             130            135            140
113 Met Glu Thr Leu Val Arg Glu Lys Gly Val Asn Ser Phe Gln Met Phe
114   145            150            155            160
116 Met Thr Tyr Lys Asp Leu Tyr Met Leu Arg Asp Ser Glu Leu Tyr Gln
117             165            170            175
119 Val Leu His Ala Cys Lys Asp Ile Gly Ala Ile Ala Arg Val His Ala
120             180            185            190

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DATE: 11/20/2001

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

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122 Glu Asn Gly Glu Leu Val Ala Glu Gly Ala Lys Glu Ala Leu Asp Leu
123      195      200      205
125 Gly Ile Thr Gly Pro Glu Gly Ile Glu Ile Ser Arg Pro Glu Glu Leu
126      210      215      220
128 Glu Ala Glu Ala Thr His Arg Val Ile Thr Ile Ala Asn Arg Thr His
129 225      230      235      240
131 Cys Pro Ile Tyr Leu Val Asn Val Ser Ser Ile Ser Ala Gly Asp Val
132      245      250      255
134 Ile Ala Ala Ala Lys Met Gln Gly Lys Val Val Leu Ala Glu Thr Thr
135      260      265      270
137 Thr Ala His Ala Thr Leu Thr Gly Leu His Tyr Tyr His Gln Asp Trp
138      275      280      285
140 Ser His Ala Ala Ala Tyr Val Thr Val Pro Pro Leu Arg Leu Asp Thr
141      290      295      300
143 Asn Thr Ser Thr Tyr Leu Met Ser Leu Leu Ala Asn Asp Thr Leu Asn
144 305      310      315      320
146 Ile Val Ala Ser Asp His Arg Pro Phe Thr Thr Lys Gln Lys Ala Met
147      325      330      335
149 Gly Lys Glu Asp Phe Thr Lys Ile Pro His Gly Val Ser Gly Val Gln
150      340      345      350
152 Asp Arg Met Ser Val Ile Trp Glu Arg Gly Val Val Gly Gly Lys Met
153      355      360      365
155 Asp Glu Asn Arg Phe Val Ala Val Thr Ser Ser Asn Ala Ala Lys Leu
156      370      375      380
158 Leu Asn Leu Tyr Pro Arg Lys Gly Arg Ile Ile Pro Gly Ala Asp Ala
159 385      390      395      400
161 Asp Val Val Val Trp Asp Pro Glu Ala Thr Lys Thr Ile Ser Ala Ser
162      405      410      415
164 Thr Gln Val Gln Gly Gly Asp Phe Asn Leu Tyr Glu Asn Met Arg Cys
165      420      425      430
167 His Gly Val Pro Leu Val Thr Ile Ser Arg Gly Arg Val Val Tyr Glu
168      435      440      445
170 Asn Gly Val Phe Met Cys Ala Glu Gly Thr Gly Lys Phe Cys Pro Leu
171      450      455      460
173 Arg Ser Phe Pro Asp Thr Val Tyr Lys Lys Leu Val Gln Arg Glu Lys
174 465      470      475      480
176 Thr Leu Lys Val Arg Gly Val Asp Arg Thr Pro Tyr Leu Gly Asp Val
177      485      490      495
179 Ala Val Val Val His Pro Gly Lys Lys Glu Met Gly Thr Pro Leu Ala
180      500      505      510
182 Asp Thr Pro Thr Arg Pro Val Thr Arg His Gly Gly Met Arg Asp Leu
183      515      520      525
185 His Glu Ser Ser Phe Ser Leu Ser Gly Ser Gln Ile Asp Asp His Val
186      530      535      540
188 Pro Lys Arg Ala Ser Ala Arg Ile Leu Ala Pro Pro Gly Gly Arg Ser
189 545      550      555      560
191 Ser Gly Ile Trp
196 <210> SEQ ID NO: 3
197 <211> LENGTH: 1829

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/986,632

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

198 &lt;212&gt; TYPE: DNA

199 &lt;213&gt; ORGANISM: Homo sapiens

201 &lt;400&gt; SEQUENCE: 3

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202 cccaagtccc cttcccggca gtttttgcct taaagctgcc ctcttgaaat taattttttc 60
203 ccaggagaga gatgtcttat caggggaaga aaaatatcc acgcatcacg agcgatcgtc 120
204 ttctgatcaa aggaggtaaa attgttaatg atgaccagtc gttctatgca gacatataca 180
205 tggagatggt gttgatcaag caaataggag aaaatctgat tgtgccagga ggagtgaaga 240
206 ccacgagggc ccaactccgg atggtgatcc ccggaggaat tgacgtccac actcgtttcc 300
207 agatgcctga tcagggaatg acgtctgctg atgatttctt ccaaggaacc aaggcggccc 360
208 tggctggggg aaccactatg atcattgacc acgttggtcc tgagcctggg acaagcctgc 420
209 tcgctgcctt tgaccagtgg agggaatggg ccgacagcaa gtctgtctgt gactactctc 480
210 tgcatgtgga catcagcgag tggcataagg gcatccagga ggagatggaa gcgcttgtga 540
211 aggatcacgg ggtaaattcc ttctcgtgtg acatggcttt caaagatcgc ttccagctaa 600
212 cggattgcca gatttatgaa gtactgagtg tgatccggga tattggcgcc atagcccaag 660
213 tccacgcaga aaatggcgac atcattgcag aggagcagca gaggatcctg gatctgggca 720
214 tcacgggccc cgagggacat gtgctgagcc gacctgagga ggtcgaggcc gaagccgtga 780
215 atcgtgccat caccatcgcc aaccagacca actgcccgtc gtatatcacc aaggtgatga 840
216 gcaaaagctc tgtgaggtc atgcgccagg caggaagaa gggaaactgtg gtgtatggcg 900
217 agcccatcac tgccagcttg ggaacggacg gctcccatta ctggagcaag aactggggcca 960
218 aggtgtctgc ctttgtcacc tccccacct tgagccctga tccaacctact ccagactttc 1020
219 tcaactcctt gctgtcctgt ggagacctcc aggtcacggg cagtgcctat tgcacgttta 1080
220 aactgcccga gaaggtgtga ggaaaggaca acttcacctt gattccggag ggcaccaatg 1140
221 gcactgagga gcggatgtcc gtcactctgg acaaggctgt ggtcactggg aagatggatg 1200
222 agaaccagtt tgtggctgtg accagcacca atgcagccaa agtcttcaac ctttaccccc 1260
223 ggaaaggccg cattgtctgt ggatccgatg ccgacctggt catctgggac cccgacagcg 1320
224 ttaaaaccat ctctgccaa acacacaaca gctctctcga gtacaacatc tttgaaggca 1380
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227 ttgtttacaa gcgtatcaag gcaaggagca ggctggctga gctgagaggg gttcctcgtg 1560
228 gcctgtatga cggacctgtg tgtgaagtgt ctgtgacgcc caagacagtc actccagcct 1620
229 cctcggccaa gacgtctcct gccaaagcagc agggcccacc tgtccggaac ctgcaccagt 1680
230 ctggattcag tttgtctggt gctcagattg atgacaacat tccccgcgc accaccagc 1740
231 gtatcgtggc gcccccggt ggccgtgcca acatcaccag cctgggctag agctcctggg 1800
232 ctgtgccgtc cactggggac tggggatgg 1829

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235 &lt;210&gt; SEQ ID NO: 4

236 &lt;211&gt; LENGTH: 572

237 &lt;212&gt; TYPE: PRT

238 &lt;213&gt; ORGANISM: Homo sapiens

240 &lt;400&gt; SEQUENCE: 4

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242   1           5           10           15
244 Leu Leu Ile Lys Gly Gly Lys Ile Val Asn Asp Asp Gln Ser Phe Tyr
245           20           25           30
247 Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
248           35           40           45
250 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
251           50           55           60
253 Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
254   65           70           75           80

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/986,632

DATE: 11/20/2001

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

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256 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
257      85      90      95
259 Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
260      100     105     110
262 Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
263      115     120     125
265 Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Ser Glu Trp
266      130     135     140
268 His Lys Gly Ile Gln Glu Glu Met Glu Ala Leu Val Lys Asp His Gly
269 145      150     155     160
271 Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
272      165     170     175
274 Thr Asp Cys Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
275      180     185     190
277 Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Glu
278      195     200     205
280 Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
281      210     215     220
283 Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ala Ile
284 225      230     235     240
286 Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Ile Thr Lys Val Met
287      245     250     255
289 Ser Lys Ser Ser Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
290      260     265     270
292 Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
293      275     280     285
295 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
296      290     295     300
298 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Phe Leu Asn Ser Leu
299 305      310     315     320
301 Leu Ser Cys Gly Asp Leu Gln Val Thr Gly Ser Ala His Cys Thr Phe
302      325     330     335
304 Asn Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
305      340     345     350
307 Glu Gly Thr Asn Gly Thr Glu Glu Arg Met Ser Val Ile Trp Asp Lys
308      355     360     365
310 Ala Val Val Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
311      370     375     380
313 Ser Thr Asn Ala Ala Lys Val Phe Asn Leu Tyr Pro Arg Lys Gly Arg
314 385      390     395     400
316 Ile Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asp Pro Asp Ser
317      405     410     415
319 Val Lys Thr Ile Ser Ala Lys Thr His Asn Ser Ser Leu Glu Tyr Asn
320      420     425     430
322 Ile Phe Glu Gly Met Glu Cys Arg Gly Ser Pro Leu Val Val Ile Ser
323      435     440     445
325 Gln Gly Lys Ile Val Leu Glu Asp Gly Thr Leu His Val Thr Glu Gly
326      450     455     460
328 Ser Gly Arg Tyr Ile Pro Arg Lys Pro Phe Pro Asp Phe Val Tyr Lys

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/986,632

DATE: 11/20/2001

TIME: 08:00:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date